

FIG. 1A

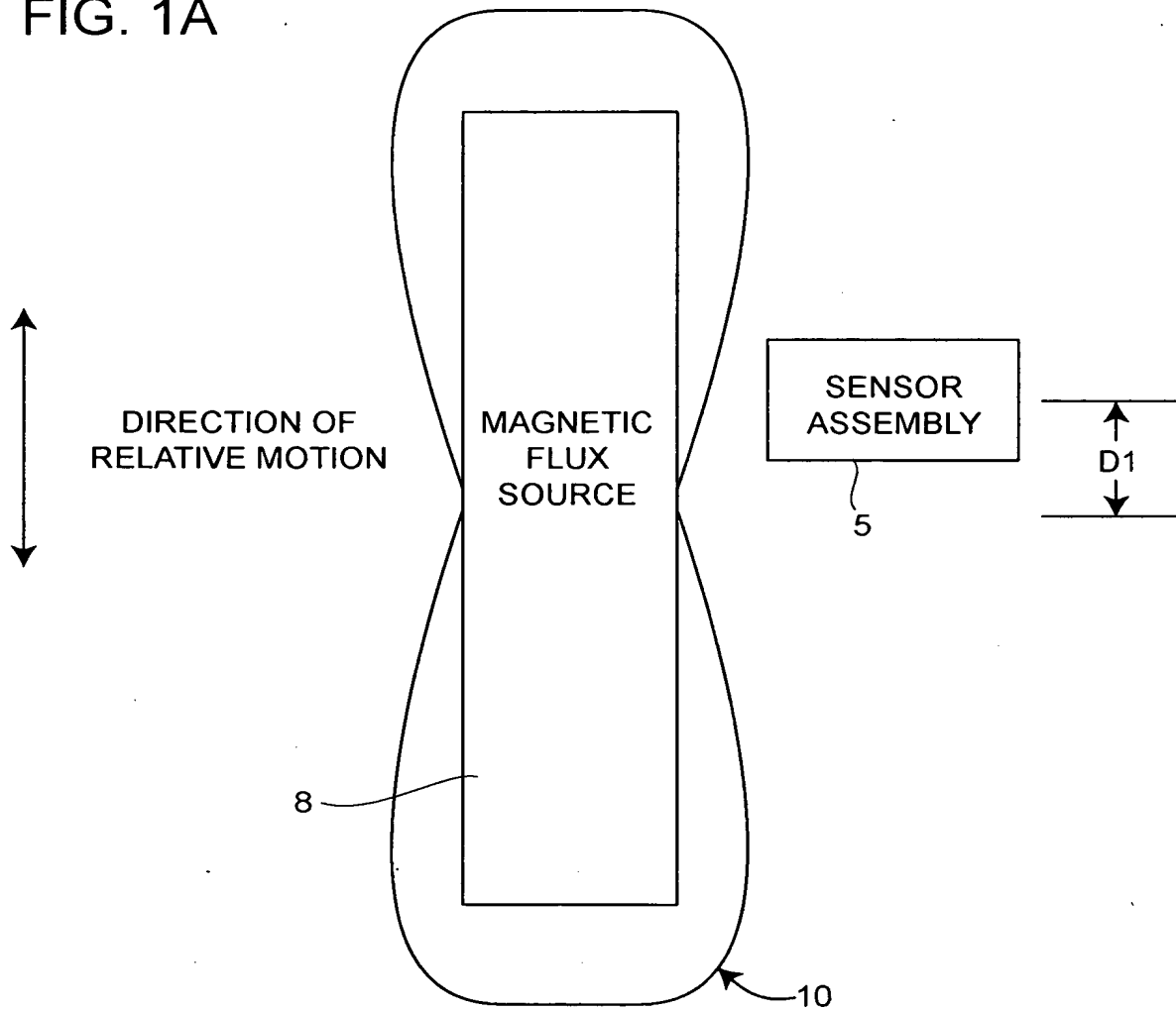


FIG. 1C

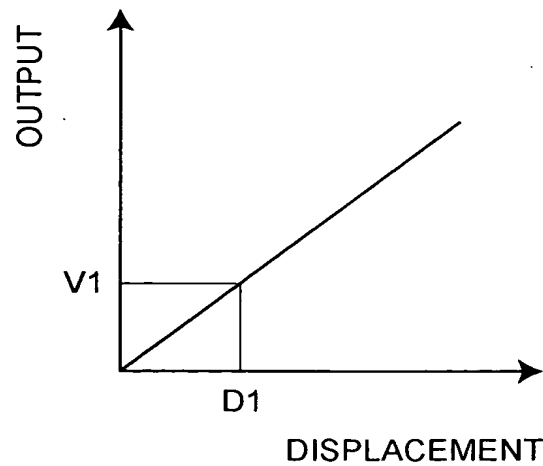


FIG. 1B

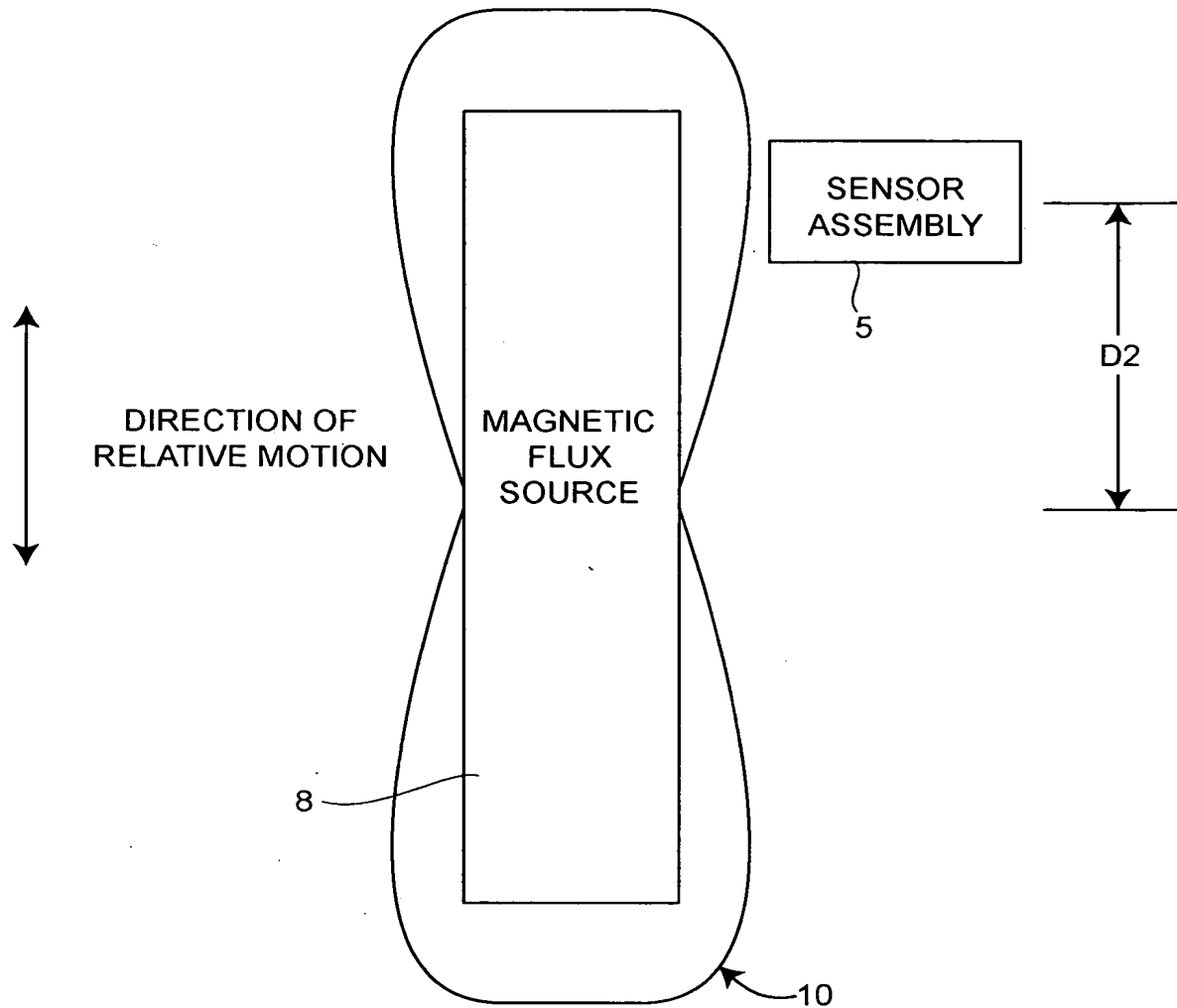
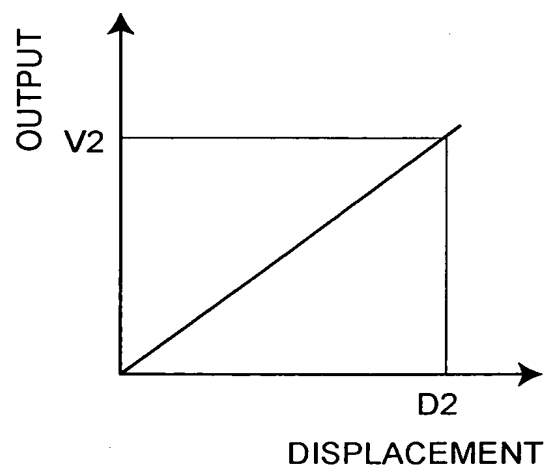


FIG. 1D



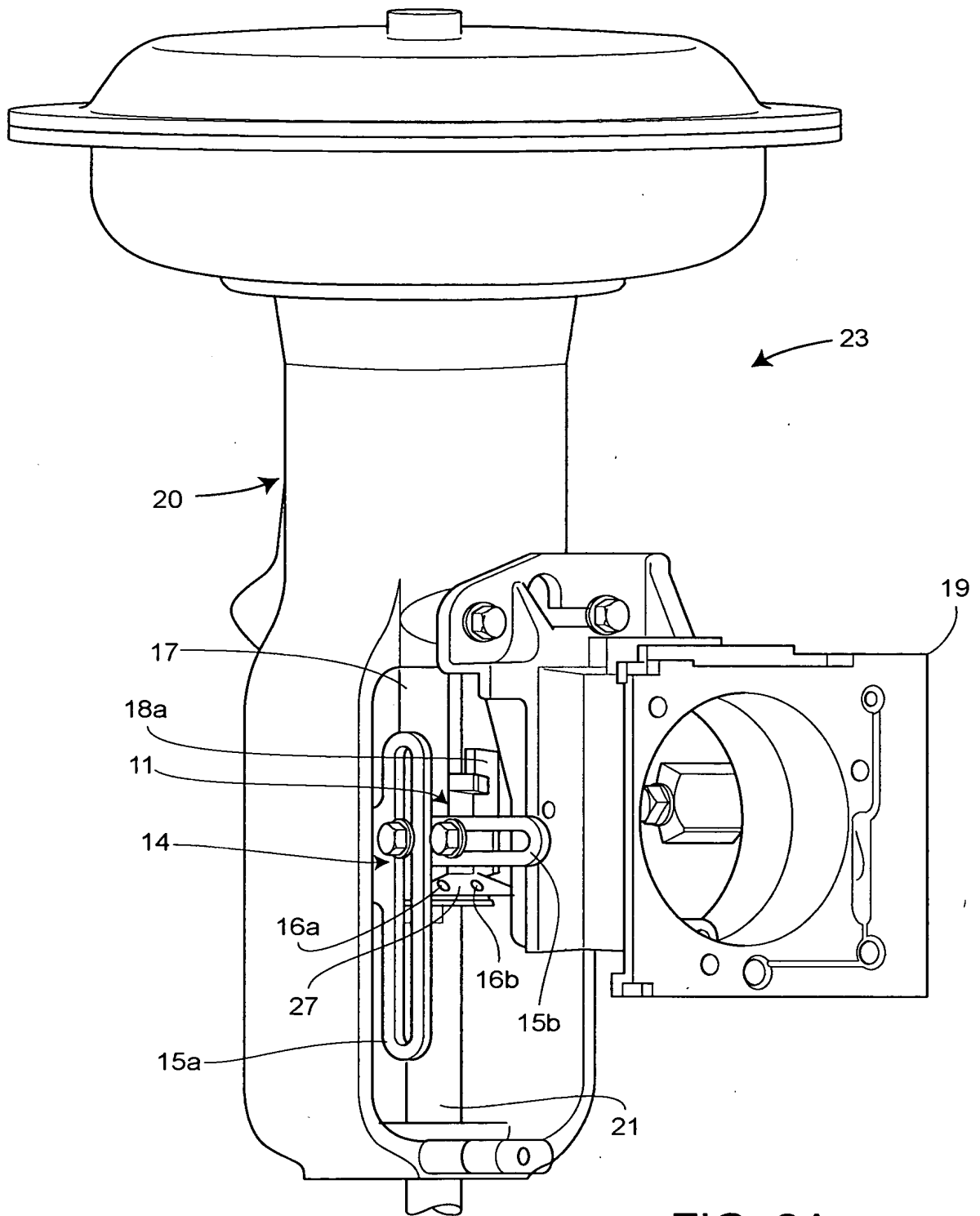


FIG. 2A

FIG. 2B

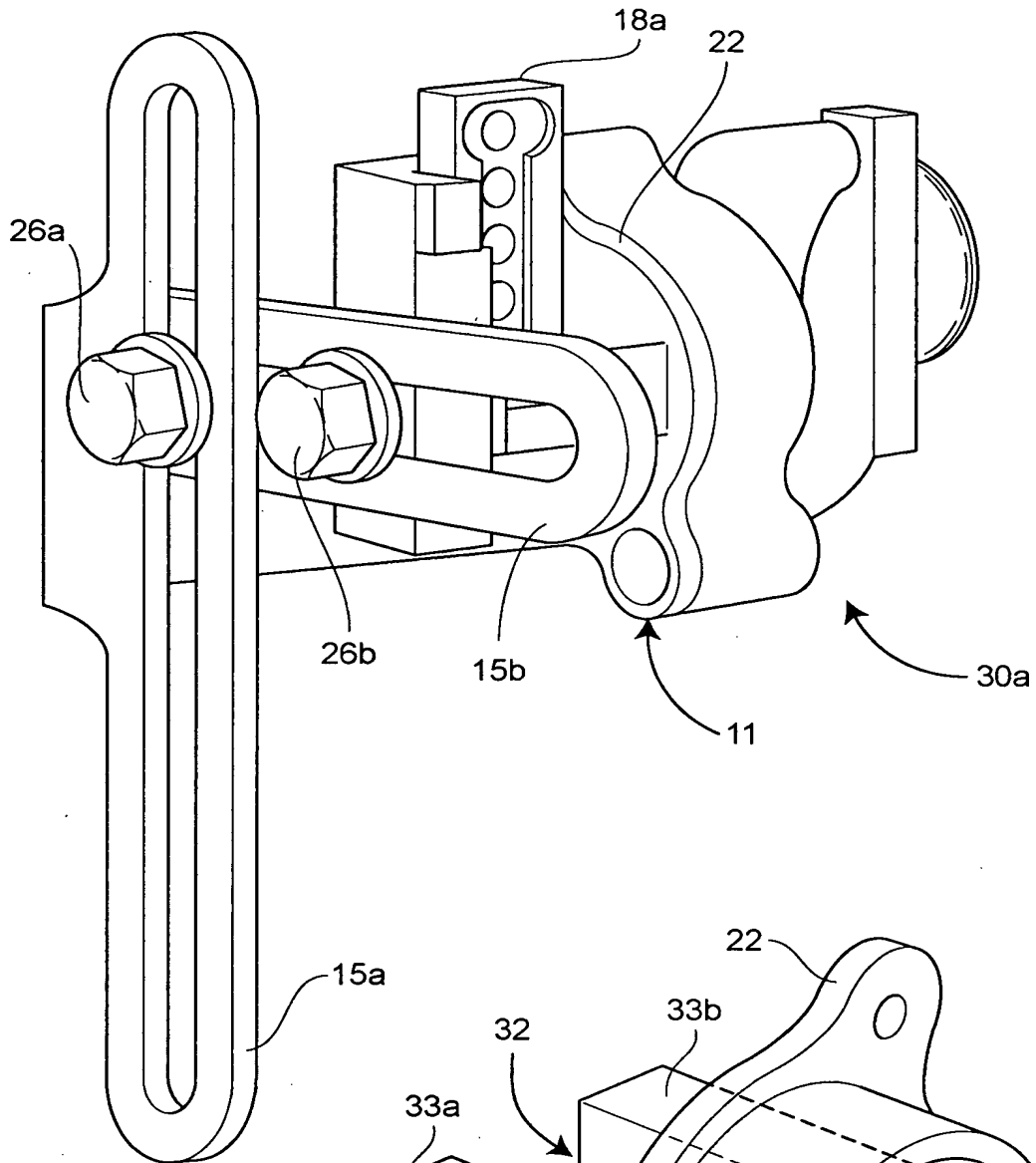
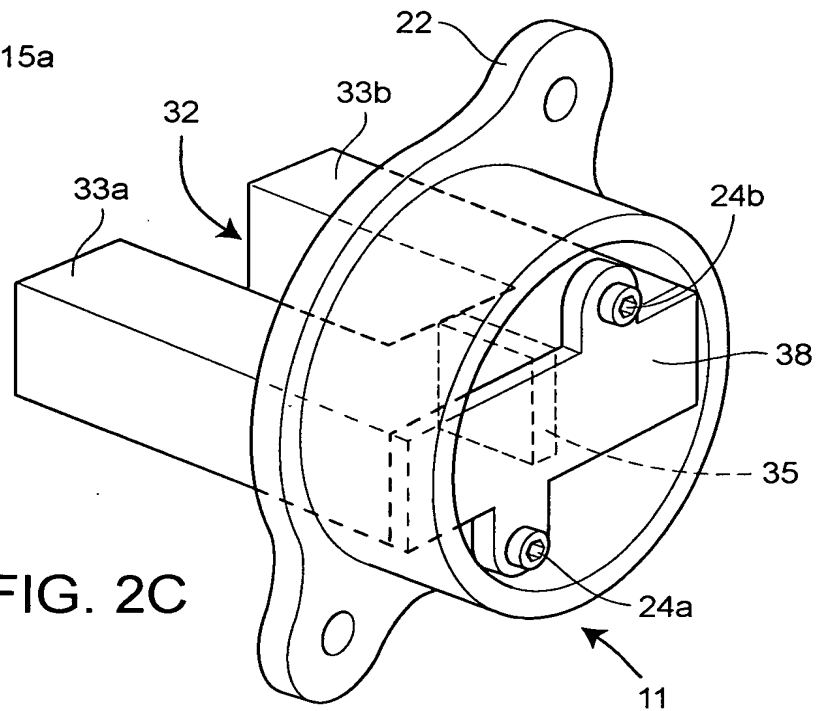


FIG. 2C



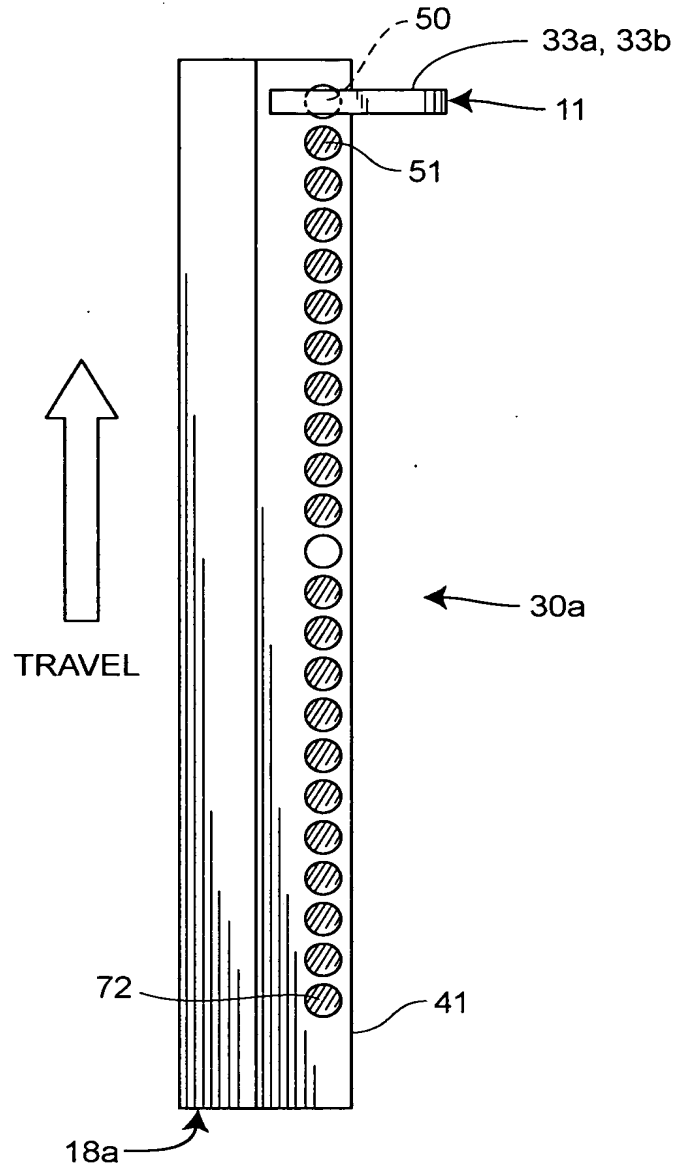


FIG. 3A

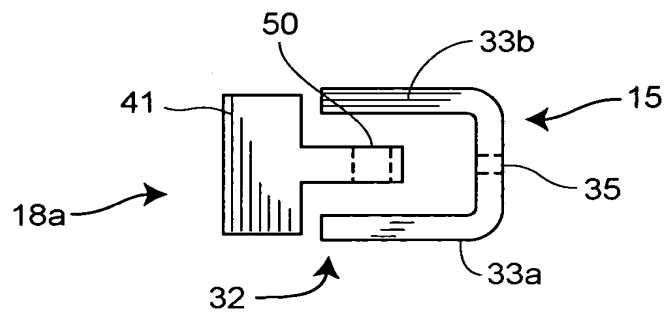


FIG. 3B

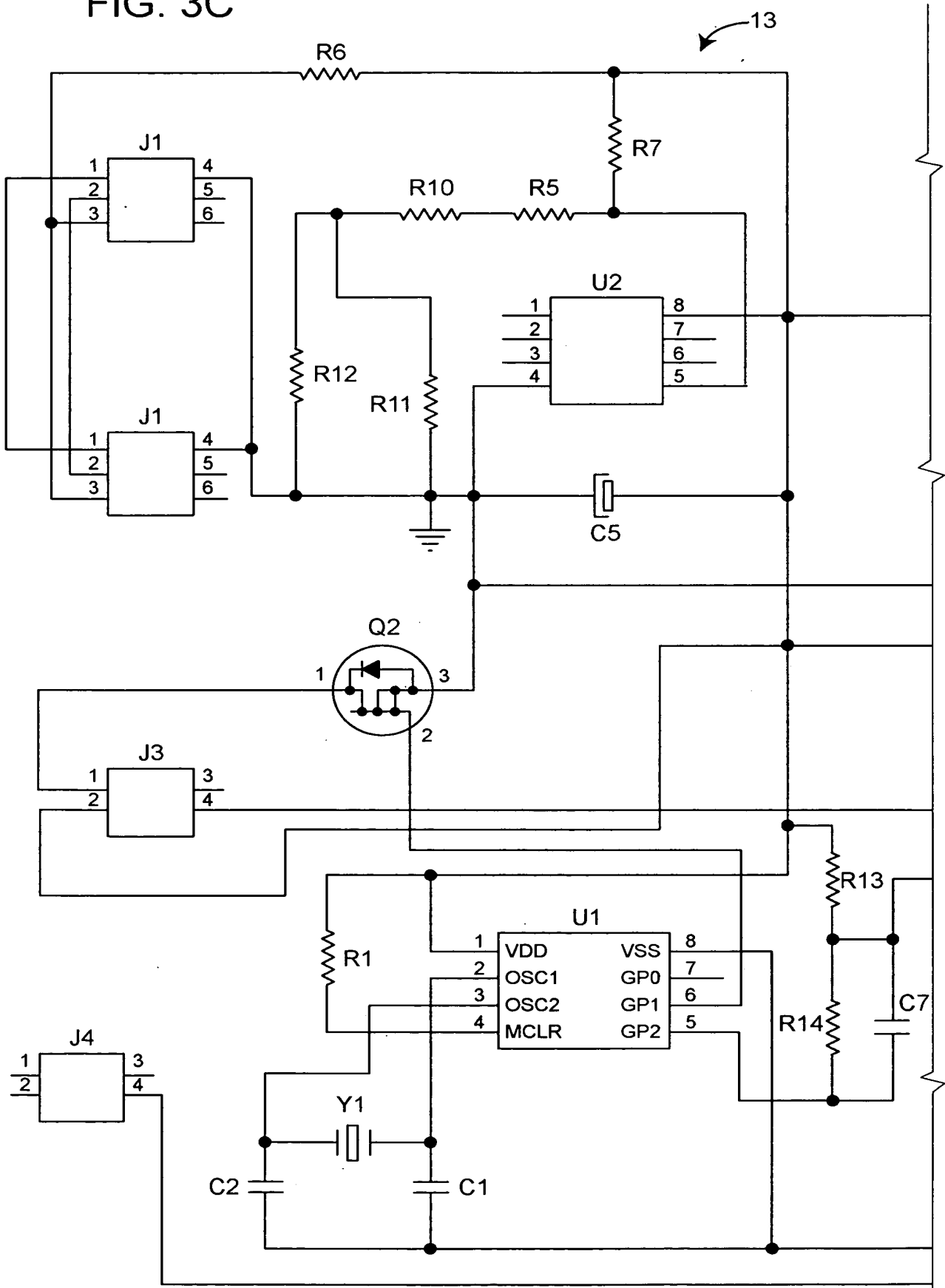
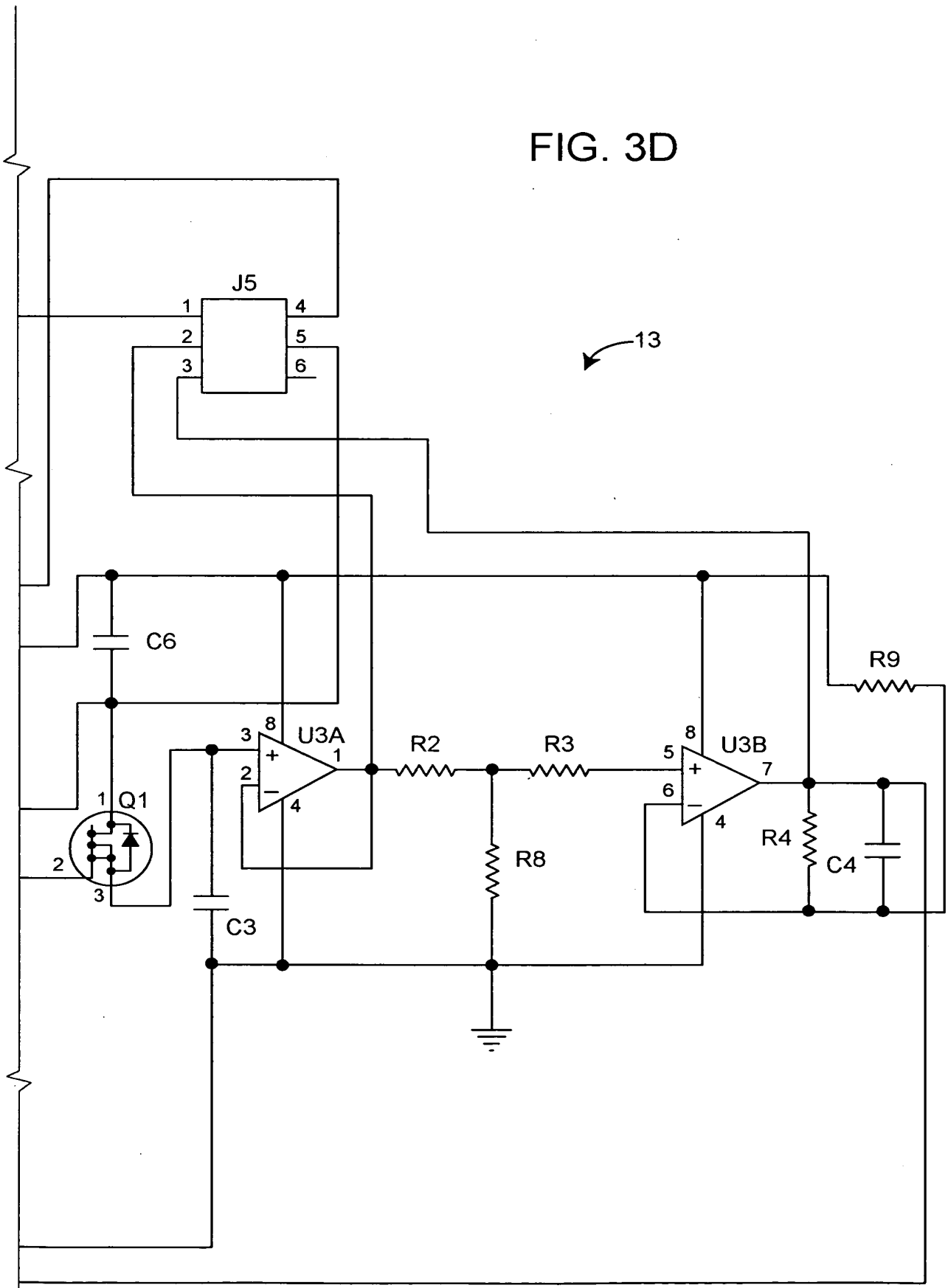


FIG. 3D



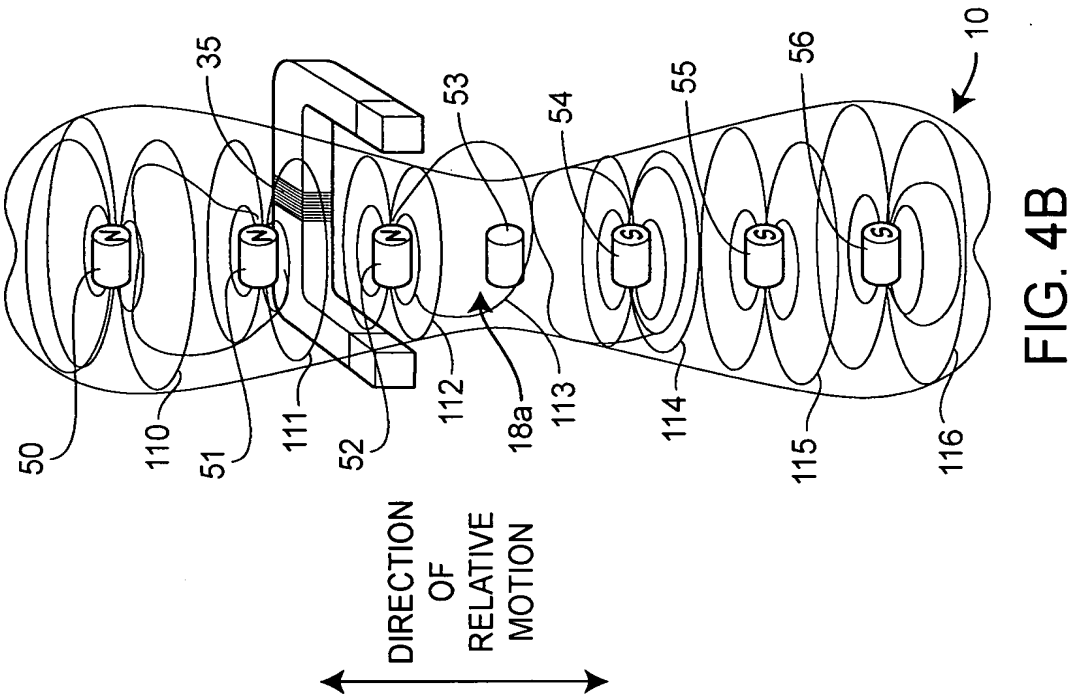
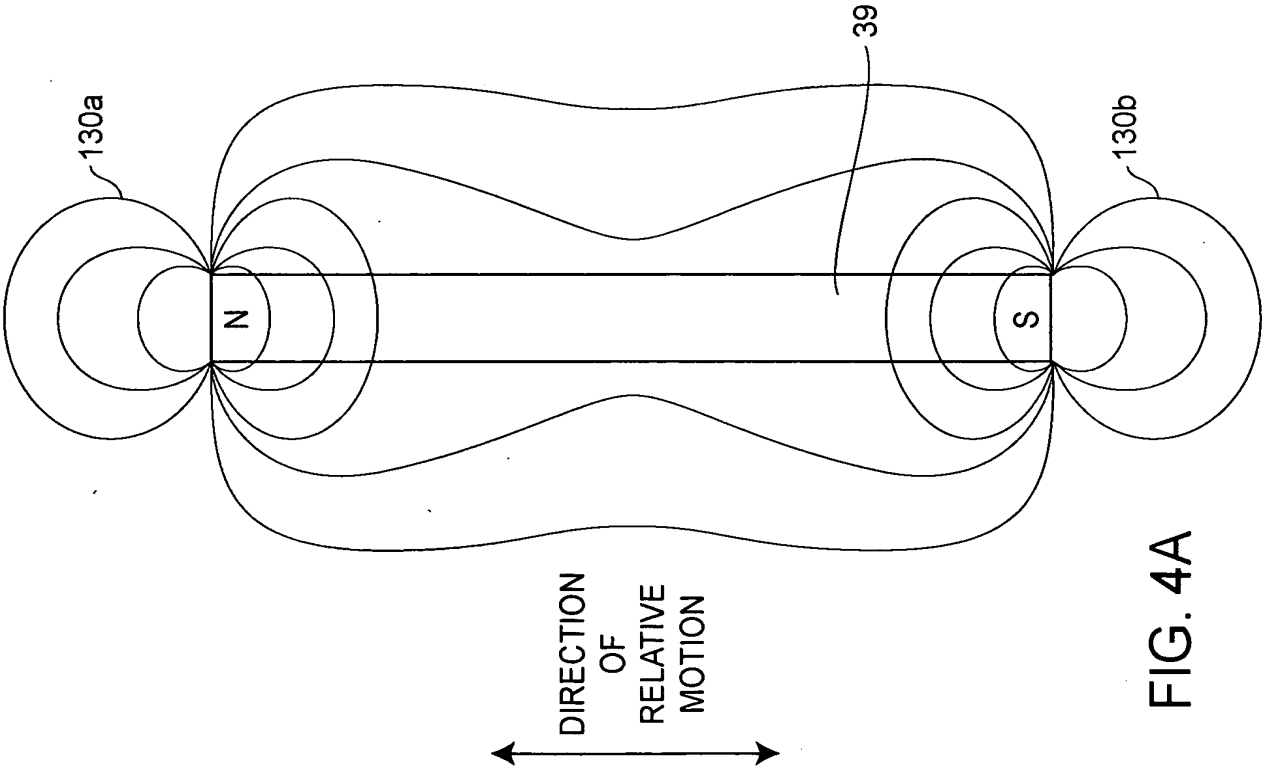




FIG. 5A

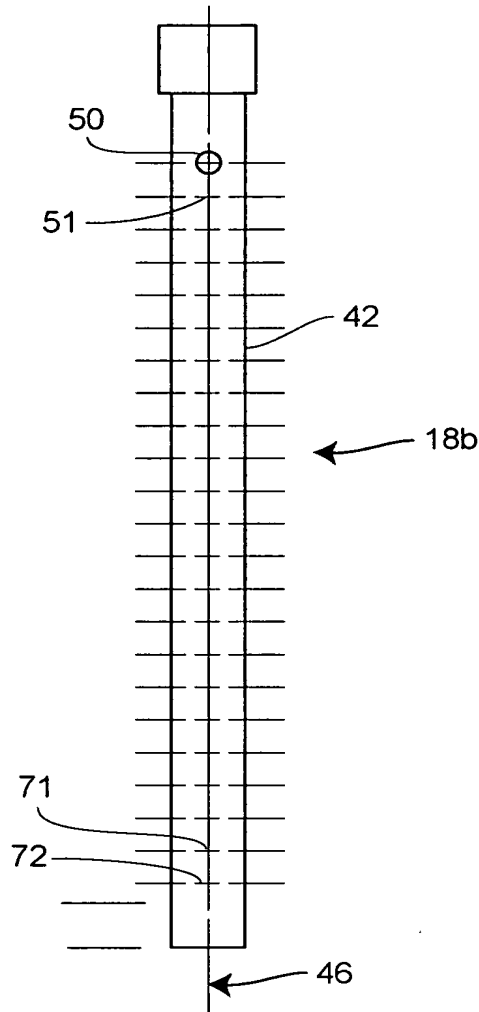
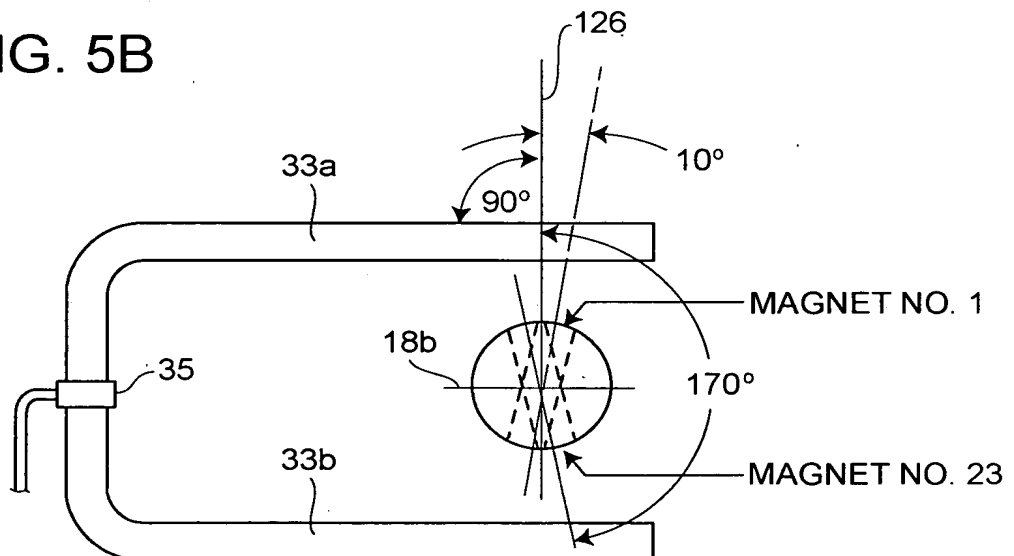


FIG. 5B



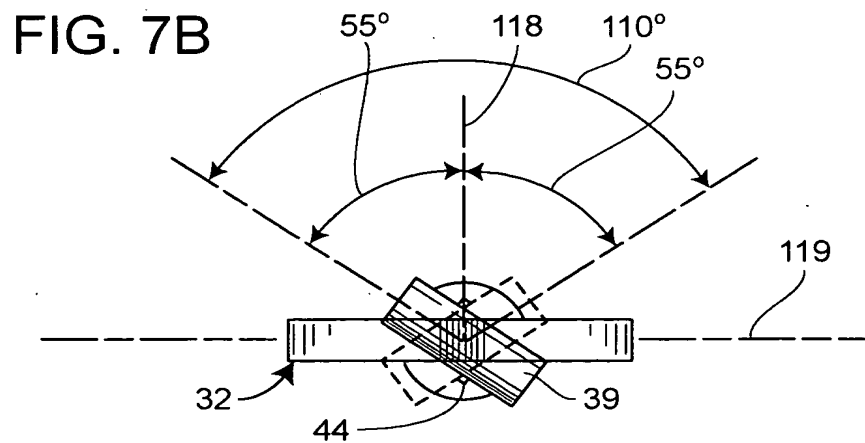
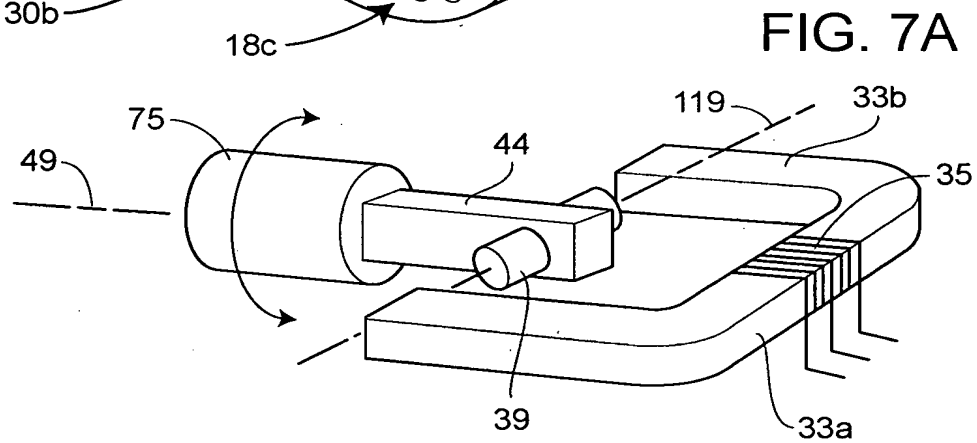
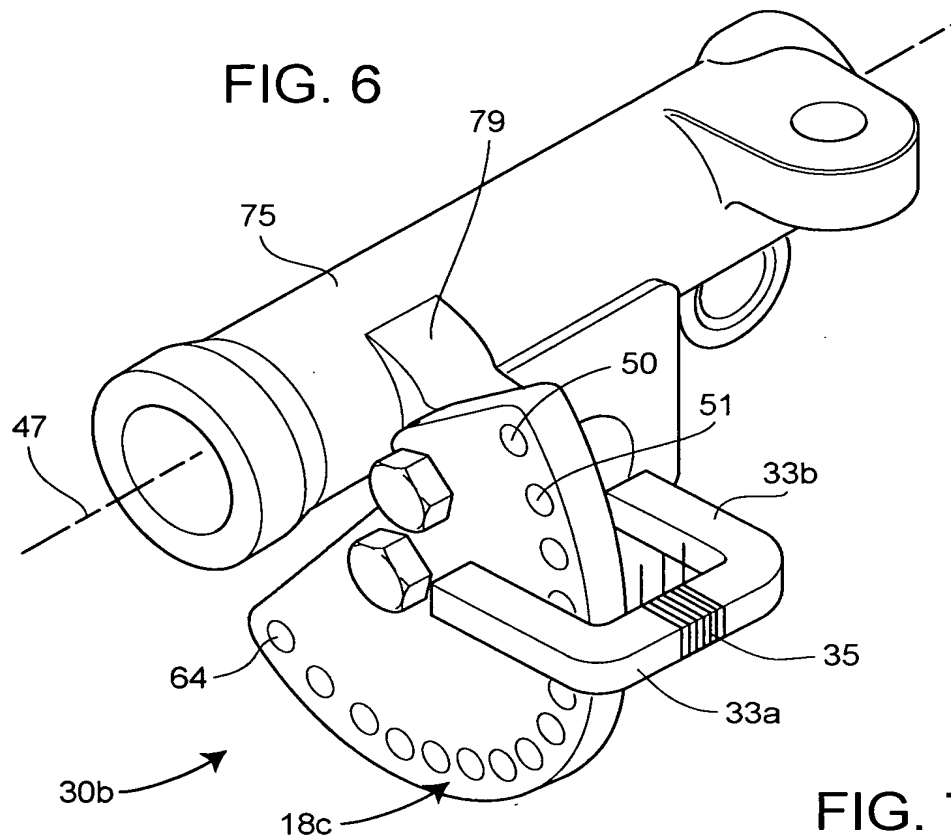


FIG. 8

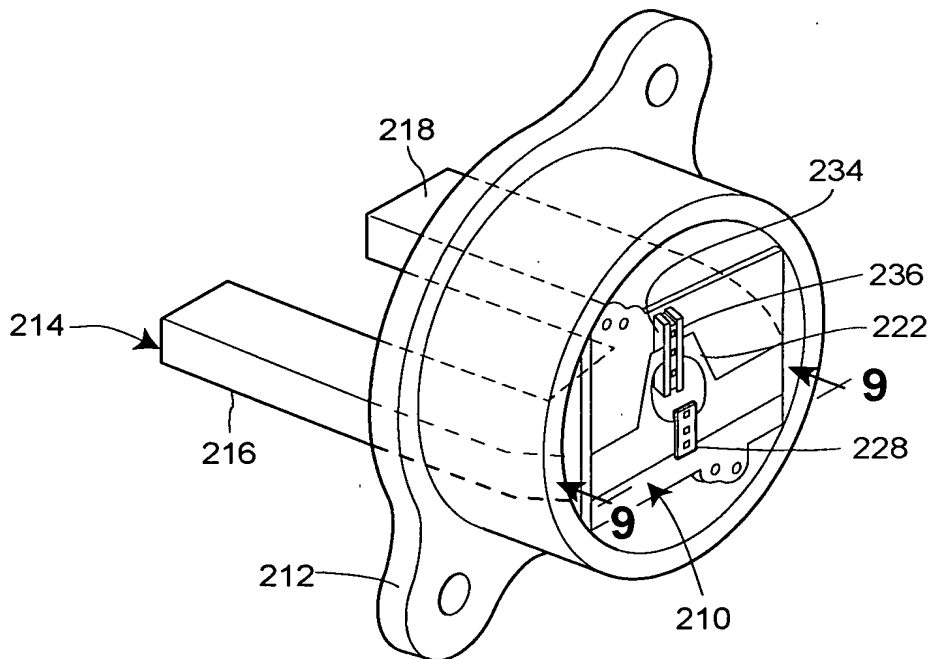


FIG. 9

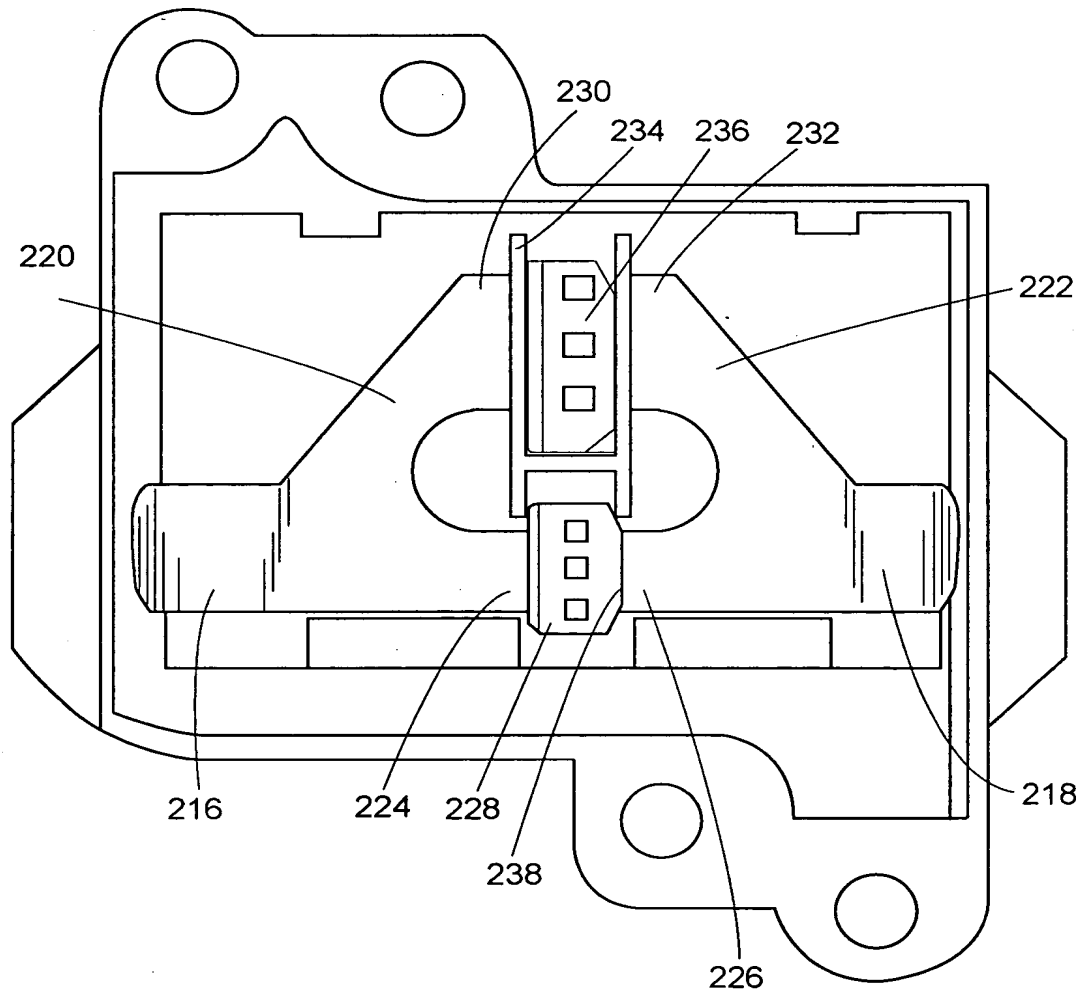


FIG. 10

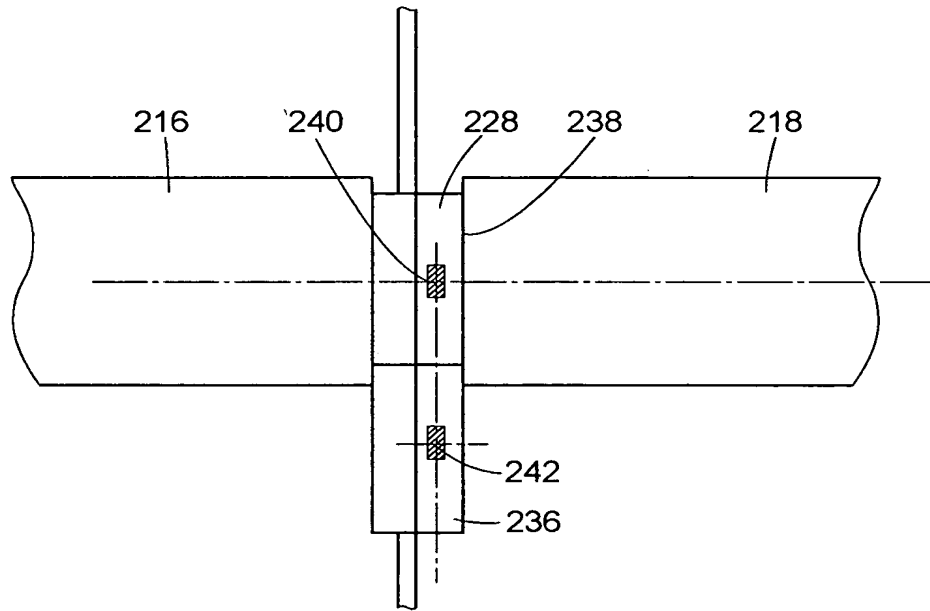


FIG. 11

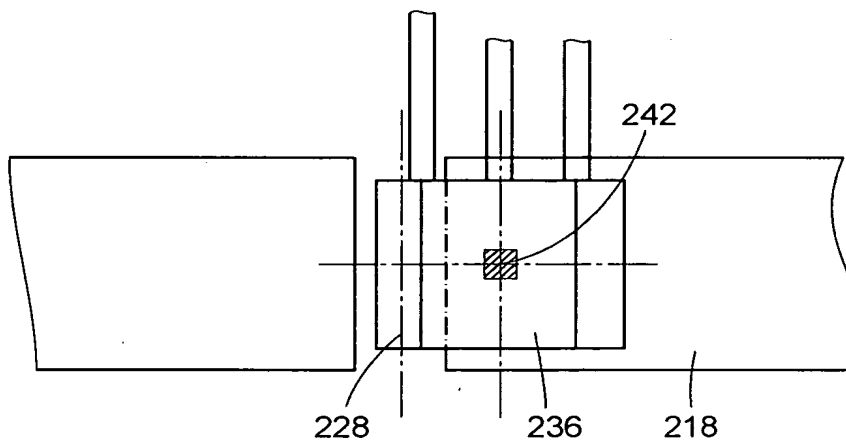


FIG. 12

Magnet Holder Travel vs Output of Primary Hall Sensor (Allegro 3516LUA) and a Second placed end to end with the Primary. Second sense element just outside the air gap between the poles.  
Magnet array is 2.5 inch 14 magnet #A14-6 Version 1.3 Calibration

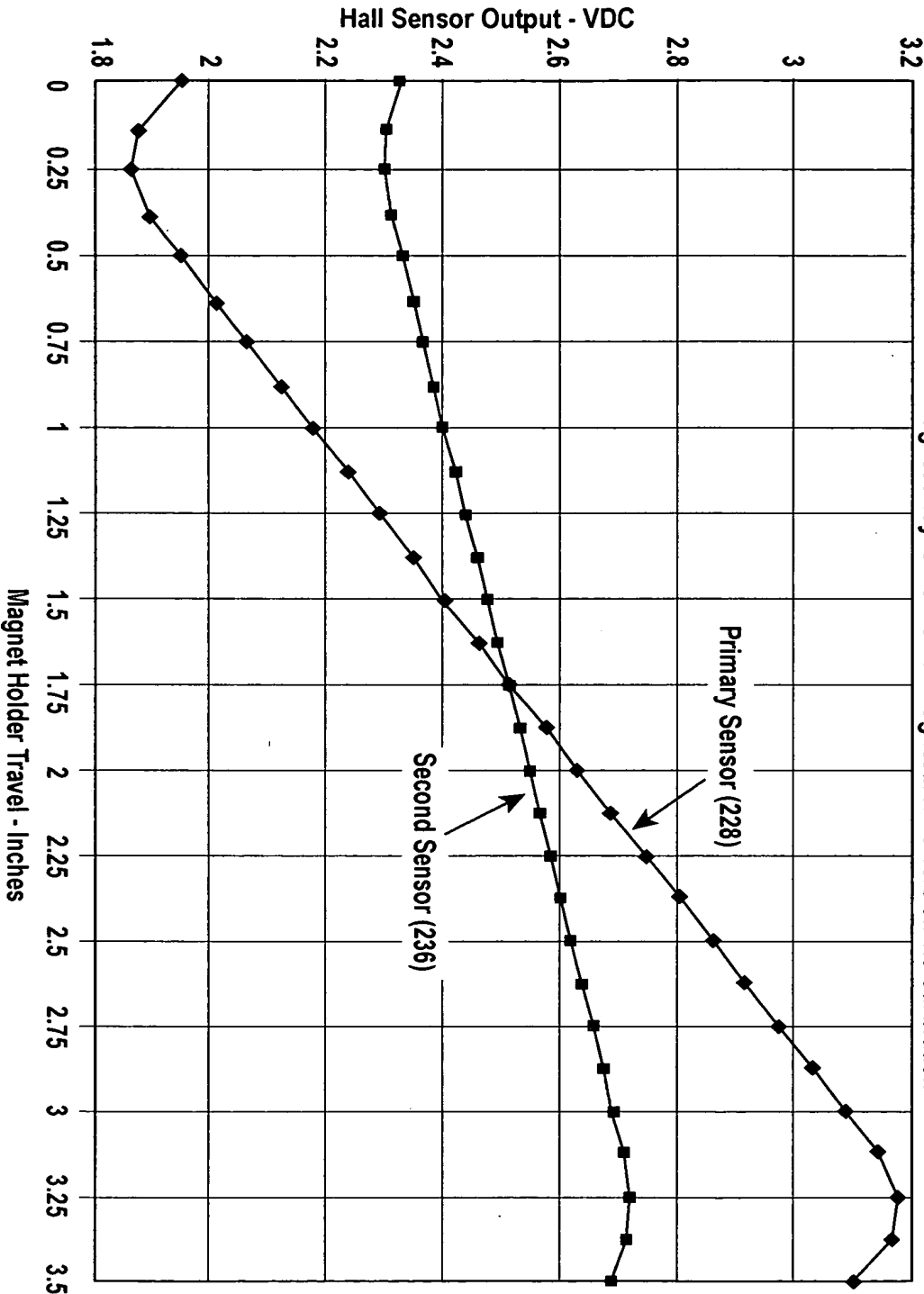


FIG. 13

